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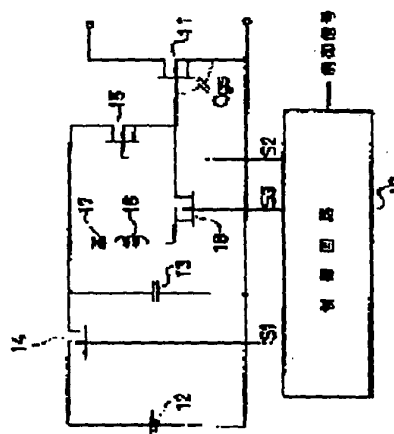
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(54) SWITCHING DRIVING CIRCUIT

(57)Abstract:

PURPOSE: To reduce the driving power of a switching element by forming a series resonance circuit comprising a parasitic capacitor such as a gate-source capacitor of a main switching element, a capacitor and a resonance inductor when the switching element is turned on.

CONSTITUTION: With a transistor(TR) 11 turned off, a gate signal S3 is fed to a TR 18 and a series resonance circuit comprising a capacitor 13, a gate-source capacitor Cgs of the TR 11, a resonance inductance 16 and a diode 17 is formed via the TR 18 and a half wave of the resonance current flows through the diode 17. Then the charge charged in the gate-source capacitor Cgs of the TR 11 is transferred to the capacitor 13, the gate-source voltage Vgs of the TR 11 is made zero, which is turned off. Thus, the charge stored in the capacitor 13 is utilized to drive turn on/off of the TR 11.



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